FORM PTO-1390 REV. 5-93 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEYS DOCKET NUMBER **P01,0010**

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

09/762259

INTERNATIONAL APPLICATION NO. PCT/EP99/05651

INTERNATIONAL FILING DATE
04 AUGUST 1999

PRIORITY DATE CLAIMED 05 AUGUST 1998

TITLE OF INVENTION

METHOD FOR ADMINISTERING A SERVICE FOR A SUBSCRIBER

APPLICANT(S) FOR DO/EO/US

RENATE ZYGAN-MAUS

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- 1. Ma This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
- 2. In This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
- 3. Mark This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay.
- 4.

 A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- 5. A copy of International Application as filed (35 U.S.C. 371(c)(2)) drawings attached.
 - a.
 is transmitted herewith (required only if not transmitted by the International Bureau).
 - b.

 has been transmitted by the International Bureau.
 - c.
 is not required, as the application was filed in the United States Receiving Office (RO/US)
- 6. A translation of the International Application into English (35 U.S.C. 371(c)(2) drawings attached.
- 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3))
 - a. \square are transmitted herewith (required only if not transmitted by the International Bureau).
 - b.

 have been transmitted by the International Bureau.
 - c. \square have not been made; however, the time limit for making such amendments has NOT expired.
 - .

 have not been made and will not be made.
- 8.

 A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
- 9_▼ ⊠ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
- 10. A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 16. below concern other document(s) or information included:

- 1f. Man Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; (PTO 1449, Prior Art, Search Report, 05 References).
- 12.
 An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included. (SEE ATTACHED ENVELOPE)
- 13.

 Amendment "A" Prior to Action and Appendix "A".
 - □ A SECOND or SUBSEQUENT preliminary amendment.
- 14.

 A substitute specification and substitute specification mark-up.
- 15.

 A change of address letter attached to the Declaration.
- 16. ☑ Other items or information:
 - a. M Request for Approval of Drawing Additions, 1 sheet, single Figure.

 - c.

 EXPRESS MAIL #EL655302775US dated February 2, 2001.

			JC05 Rec	PCT/PTO O.E	2FEB 2001	
U.S. APPLICATION NO. (If known,	ATION NO. (If known, see 37 C.F.R. 1.5) INTERNATIONAL APPLICATION NO. PCT/EP99/05651		ATION NO.	ATTORNEY'S DOCKET NUMBER P01,0010		
17. ⊠ The following	fees are submitted:			CALCULATIONS	PTO USE ONLY	
BASIC NATIO	NAL FEE (37 C.F.R. 1.4 s been prepared by the EPO c					
International preli	minary examination fee paid t	to USPTO (37 C.F.R.	. 1.482) \$690.00			
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search fee (37 C.	nal preliminary examination for F.R. 1.445(a)(2) paid to USP	то	\$1000.00			
International preli	minary examination fee paid rovisions of PCT Article 33(2	to USPTO (37 C.F.R)-(4)	. 1.482) and all \$ 100.00			
		EE AMOUNT =	\$ 860.00			
Surcharge of \$130.00 for the earliest claimed p	furnishing the oath or declara	tion later than 🗆 20	O □ 30 months	\$		
Claims	Number Filed	Number Extra	Rate			
Total Claims	06 - 2	0 = 0	X \$ 18.00	\$		
Independent Claims	02 -	3 = 0	X \$ 80.00	\$		
Multiple Dependent C	laims		\$270.00+	\$		
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Reduction by ½ for filing be filed. (Note 37 C.F.R. 1	by small entity, if applicable.	\$				
			SUBTOTAL =	\$ 860.00		
Processing fee of \$130.00 for furnishing the English translation later than \Box 20 \Box 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$		
		\$ 860.00				
Fee for recording the encl accompanied by an appro	osed assignment (37 C.F.R. 1 priate cover sheet (37 C.F.R.	1.21(h). The assignn 3.28, 3.31). \$40.0	nent must be 0 per property +			
		TOTAL FE	ES ENCLOSED =	\$ 860.00		
				Amount to be refunded	\$	
				charged	\$	
a. ⊠ A check in t	he amount of \$ <u>860.00</u>	to cover the	above fees is enclo	sed.		
b. Please charg A duplicate	e my Deposit Account copy of this sheet is en	No closed.	in the amount o	of \$ to co	ver the above fees	
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NOTE: Where an approp	riate time limit under 37 C.F.I are the application to pending	status.	. —		1.137(a) or (b)) must b	
SEND ALL CORRES	PONDENCE TO:	SIGNATUR	nd Beigne	1		
SCHIFF HARDIN &		Mark Pa	raner			
PATENT DEPARTMI	PATENT DEPARTMENT 6600 Sears Tower NAME					
233 South Wacker	Drive					
Chicago, Illinois 60		45,877				
CUSTOMER NUMB	SER 26574	Registration	n Number			

PRELIMINARY AMENDMENT A **PRIOR TO ACTION**

APPLICANT(S):

RENATE ZYGAN-MAUS

ATTORNEY DOCKET NO.:

P01,0010

INTERNATIONAL APPLICATION NO: PCT/EP99/05651

INTERNATIONAL FILING DATE:

04 AUGUST 1999

INVENTION:

METHOD FOR ADMINISTERING A SERVICE FOR A

SUBCRIBER

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Lane

True Hall Green March

Assistant Commissioner for Patents, Washington D.C. 20231

Sir:

Applicants herewith amend the above-referenced PCT application, and request entry of the Amendment prior to examination on the United States Examination Phase.

IN THE CLAIMS:

On page 6:

replace line 1 with --WHAT IS CLAIMED IS:--;

Please replace original claims 1-6 with the following rewritten claims 1-6, referring to the mark-ups in Appendix A.

(Amended) A method for administering a function of a service, comprising the steps of:

accepting a request for administration of said function via a mobile network terminal device of a mobile network subscriber;

identifying said mobile network subscriber;

instructing, following a successful identification, said mobile network subscriber that said service should now be informed of a connection number of a fixed network terminal device for said administration of said function;

allocating a connection number communicated after instructing said mobile network subscriber to said mobile network subscriber; and

controlling a handling of a call initiated from said fixed network terminal device via said service, said call being allocated to said mobile network subscriber with assistance of said connection number of said fixed network, dependent on a profile of said mobile network subscriber.

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- 2. (Amended) The method according to claim 1, further comprising the step of informing said mobile network subscriber of a selection code that is to be additionally employed given use of said fixed network terminal device via said service.
- 3. (Amended) The method according to claim 1, further comprising the step of automatically de-registering said fixed network terminal device that has been employed after expiration of a prescribable time or by an explicit de-registration procedure via said mobile network terminal device, resulting in a loss of a property of being able to be used by said mobile network subscriber according to said subscriber's profile.

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(Amended) A service logic for control of a service, comprising:
 means for accepting a request for administering a function of said service via
 a mobile network terminal device of a mobile network subscriber;

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means for subsequently identifying said mobile network subscriber;
means for instructing, following a successful identification, said mobile
network subscriber that it should now be informed of a connection number of a fixed
network terminal device for the administration of said function;

means for allocating a connection number communicated after instructing said mobile network subscriber to said mobile network subscriber; and

means for controlling a handling of a call initiated from said fixed network terminal device via said service, said call being allocated to said mobile network subscriber with assistance of said connection number of said fixed network, dependent on a profile of said mobile network subscriber.

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5. (Amended) A service logic according to claim 4, further comprising a means of informing said mobile network subscriber of a selection code that is to be additionally employed given use of said fixed network terminal device via said service.

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6. (Amended) A service logic according to claim 4, further comprising:
means for automatically de-registering said fixed network terminal device that
has been employed after expiration of a prescribable time or by an explicit deregistration procedure via said mobile telephone, resulting in a loss of a property of
being able to be used by the mobile network subscriber according to said
subscriber's user profile.

REMARKS

The present Amendment revises the specification and claims to conform to United States patent practice, before examination of the present PCT application in the United States National Examination Phase. Pursuant to 37 CFR 1.125 (b), applicants have concurrently submitted a substitute specification, excluding the claims, and provided a marked-up copy. All of the changes are editorial and applicant believes no new matter is added thereby. The amendment, addition, and/or cancellation of claims is not intended to be a surrender of any of the subject matter of those claims. Please note that the Abstract of the Substitute Specification is simply the Abstract identified on the front of the International Application sheet.

Early examination on the merits is respectfully requested.

Submitted by,

(Reg. No. 45,877)

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Attorneys for Applicant

CUSTOMER NUMBER 26574

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Appendix A Mark Ups for Claim Amendments

This redlined draft, generated by CompareRite (TM) - The Instant Redliner, shows the differences between -

original document: Q:\DOCUMENTS\YEAR 2001\P010010-MAUS-ADMINISTERING SUBSCRIBER SERVICE\ORIGINAL CLAIMS.DOC and revised document: Q:\DOCUMENTS\YEAR 2001\P010010-MAUS-ADMINISTERING SUBSCRIBER SERVICE\AMENDED CLAIMS.DOC

CompareRite found 71 change(s) in the text

Deletions appear as Overstrike text surrounded by [] Additions appear as Bold-Underline text

1. [Method](Amended) A method for administering a function of a service, [in accord wherewith] comprising the steps of:

[--]accepting a request for [the] administration of [the] said function [is accepted] via a mobile network terminal device of a mobile network subscriber;

[-- the] identifying said mobile network subscriber [is subsequently identified;];

[--]instructing, following a successful identification, [the] said mobile network subscriber [is instructed] that [the] said service should now be informed of a connection number of a fixed network terminal device for [the] said administration of [the] said function;

[--]allocating a connection number communicated [thereupon is allocated to the] after instructing said mobile network subscriber to said mobile network subscriber; and[:]

[B the] controlling a handling of a call initiated from [the] said fixed network terminal device via [the] said service, said call being allocated to [the] said mobile network subscriber with [the] assistance of [the] said connection number of [the] said fixed network, [is controlled] dependent on [the] a profile of [the] said mobile network subscriber.

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- 2. [Method](Amended) The method according to claim 1, [characterized in that the]further comprising the step of informing said mobile network subscriber [is informed] of a selection code that is to be additionally employed given use of [the] said fixed network terminal device via [the] said service.
- 3. [Method](Amended) The method according to claim 1 [or 2, characterized in that the], further comprising the step of automatically de-registering said fixed network terminal device that has been employed [is de-registered automatically] after expiration of a prescribable time [and/or] or by an explicit de-registration procedure via [the mobile telephone, as a result whereof it loses the] said mobile network terminal device, resulting in a loss of a property of being able to be used by [the] said mobile network subscriber according to said [subscriber=s] subscriber's profile.
- 4. [Service](Amended) A service logic for [the] control of a service [that], comprising:

[—accepts] means for accepting a request for administering a function of [the] said service via a mobile network terminal device of a mobile network subscriber;

[B] means for subsequently [identifies the] identifying said mobile network subscriber;

[B] means for instructing, following a successful identification, [instructs the] said mobile network subscriber that it should now be informed of a connection number of a fixed network terminal device for the administration of [the] said function;

[-- allocates] means for allocating a connection number communicated [thereupon to the] after instructing said mobile network subscriber to said mobile network subscriber; and

means for controlling af;

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B then controls the] handling of a call initiated from [the] said fixed network terminal device via [the] said service, said call being allocated to [the] said mobile network subscriber with [the] assistance of [the] said connection number of [the] said fixed network, dependent on [the] a profile of [the] said mobile network subscriber.

- 5. [Service](Amended) A service logic according to claim [6 [sic], characterized in that it informs the] 4, further comprising a means of informing said mobile network subscriber of a selection code that is to be additionally employed given use of [the] said fixed network terminal device via [the] said service.
- 6. [Service](Amended) A service logic according to claim 4 [or 5, characterized in that it de-registers the], further comprising: means for automatically de-registering said fixed network terminal device that has been employed [automatically] after expiration of a prescribable time [and/or] or by an explicit de-registration procedure via [the] said mobile telephone, [as a result whereof it loses the] resulting in a loss of a property of being able to be used by the mobile network subscriber according to said [subscriber=s] subscriber's user profile.

09/762259

JC05 Rec'd PCT/PTO 0 2 FEB 2001

Siemens AG New PCT application 26965-0858 (P-01,0010) 1998P02238WOUS Inventor: Maus

Translation / January 12, 2001 / 1696(911) / 1850 words

For using an FMC service (FMC: fixed-mobile converged), the subscriber must be unambiguously identified and authorized (for example, in order to be able to carry out a correct charging). Given fixed-mobile converged services such as, for example, PCS (personal communication service) and CCS (corporate communication service), the service user sometimes employs a mobile terminal device and sometimes employs a fixed network terminal device.

In the mobile radiotelephone network, the unambiguous identification of the subscriber ensues automatically via the SIM card (SIM: subscriber identity module). The identification of the subscriber can also ensue automatically in the fixed network when the subscriber uses a terminal device that is administratively known to the FMC service and that is allocated to the subscriber, and when the fixed network supplies the calling line identity (connection number) of this fixed network terminal device to the FMC service logic.

Given employment of an arbitrary fixed network terminal (i.e. a fixed network terminal that was not administratively allocated to the subscriber by the FMC service), an automatic identification of the subscriber is not possible. However, a registration at one's own fixed network terminal device for employing this terminal device via a specific FMC service is also not possible, even though this would be meaningful in certain cases (for example, for teleworkers when specific calls from the connection are to be at the expense of the company (CCS service)).

Up to now, the fixed network has supported the use of outside terminals at one's own expense or, respectively, of one's own terminal at the expense of a third party only via the possibility of identifying and authenticating the calling party by means of an in-band dialogue. To that end, the calling party (for example, an IN service subscriber) must input a personal identification number (PIN) that the service logic compares to data stored in the network (for example, given credit card services or given UPT). Such a Prior Art is known, for example, from the document EP-A-0 602 779.

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The document WO 98 09425 A, further, discloses a system for handling calls with whose assistance a fixed network terminal device that is to be employed for the continuation of the call can be indicated given an initiation of a call via a mobile network terminal device.

The document EP-A-0844 799, finally, discloses a communication system for handling calls with whose assistance a mobile network subscriber can indicate via said subscriber's mobile network terminal device whether calls directed to said subscriber should be routed to a prescribable fixed network terminal device.

The invention is based on the object of facilitating the employability of a fixed network terminal device via a specific service for a mobile network subscriber.

An exemplary embodiment of the invention is explained in greater detail below with reference to the drawing, whereby the drawing comprises one Figure.

The Figure represents an exemplary configuration wherein the realization of the inventive service logic is based on an intelligent network IN. An inventive FMC service, however, need not necessarily be realized on a service control point SCP of an IN.

Given an FMC service whose service logic is realized in a service control point SCP, the caller has a mobile telephone GSM available. Given an access of the subscriber to the FMC service via the mobile telephone, the FMC service logic receives the mobile radiotelephone number MSISDN of the FMC service subscriber that is administratively known to the FMC service logic and that was authenticated in the mobile radiotelephone network PLMN (given an IN-based FMC service, for example, the mobile radiotelephone number of the FMC service subscriber is transmitted in the CallingPartyNumber parameter of the standardized IN protocol, see ETSI Core INAP or ITU-T Recommendations Q.1218/Q.1228). The FMC service logic can automatically identify and authorize the FMC subscriber on the basis of the subscriber's mobile radiotelephone number.

This can be utilized by the subscriber of the FMC service for the use of an arbitrary fixed network terminal device in a fully digital fixed network PSTN that transmits the CallingLineIdentity in order to avoid the employment of a PIN. The procedure for this is as follows:

Phase 1:

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The subscriber selects an FMC service access code at the mobile telephone GSM. The access request is potentially forwarded to the FMC service across network boundaries (here, from a mobile network PLMN via a digital fixed network PSTN). The FMC service automatically identifies the subscriber on the basis of the subscriber's mobile radiotelephone number MSISDN. In response thereto, the FMC service initiates that the subscriber should now inform the service of a connection number of a fixed network terminal device. Via voice or DTMF input, the subscriber enters the CallingLineIdentity of the fixed network terminal device that he would like

to use at his own expense for outgoing calls or other line-switched services (for example, data transmission) for a definable time duration or, respectively, until an explicit de-registration. The FMC service subsequently registers the terminal device and assigns it to the subscriber. Optionally, the FMC service can communicate a selection code to the subscriber that is to be additionally employed given utilization of this fixed network terminal device (the service can distinguish between a plurality of inventive outside users of the fixed network terminal device on the basis of the selection code).

Phase 2:

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The subscriber selects a specific FMC service access code at the fixed network terminal device and, optionally, an additional, temporary selection code before the destination telephone number. The FMC service access number is triggered in the fixed network and an inquiry is made at the FMC service logic (for example, with the existing IN procedures). This identifies the FMC service subscriber on the basis of the CallingLineIdentity of the fixed network terminal device registered in phase 1 that is co-supplied in a fully digital fixed network and - optionally - also on the basis of the temporary selection code in the selected numbers (INAP parameter CalledPartyNumber), and decides about further handling of the call (for example, charge accrual) on the basis of the FMC service subscriber profile). The FMC service logic controls the further handling of the call (for example, according to the existing IN procedures). The freedom from cost for the owner of the fixed network terminal can be assured on the basis of the selected, specific FMC service access code in the fixed network subscriber switching center on the basis of administrative data or controlled by the FMC service logic (for example, with the assistance of existing IN procedures).

The FMC service subscriber can also use the registered fixed network terminal device for subsequent calls in the same way without requiring a separate PIn therefor, namely until a de-registration ensues.

Phase 3:

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Either automatically after the expiration of a prescribable time and/or by an explicit de-registration procedure via the mobile telephone, the fixed network terminal device that has been employed loses the property of being able to be used by the FMC service subscriber at the subscriber's own expense or, respectively, of being able to be used by the FMC service subscriber at the expense of a third party. (Given an explicit de-registration procedure, which is again to be implemented via the mobile network terminal device, analogous to the registration procedure, the FMC service checks whether there is already a registration for the CallingLineIdentity indicated by the subscriber. When this is the case, the de-registration is implemented.)

The administration of subscriber-individual PINs for the use of arbitrary fixed network terminals is thus superfluous for FMC services.

FMC service sub-functions other than the described method for using arbitrary fixed network terminals can also be administered without the employment of a PIN by the subscriber when the subscriber implements the administration only via his mobile radiotelephone. The required subscriber identification is carried out by the mobile radiotelephone network in the same way as described for the method for using arbitrary fixed network terminals. Subscriber-individual PINs can thus be generally foregone in FMC services when all subscriber inputs for administration of services ensue only via the subscriber's mobile radiotelephone.

Abbreviations Employed:

BTS : base transceiver system

BSC : base station controller

HLR/AC : home location register / authentication center

25 IN : intelligent network

INAP : In application protocol

ISUP : ISDN user part

LEX-SSP : Local exchange with SSP functionality

MSC-SSP : Mobile switching center with SSP functionality

30 MAP : mobile application part

: Public switched telephone network

PLMN

: public land mobile network

SSP

: service switching point

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Patent Claims

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- 1. Method for administering a function of a service, in accord wherewith
 a request for the administration of the function is accepted via a mobile
 network terminal device of a mobile network subscriber;
 the mobile network subscriber is subsequently identified;
- following a successful identification, the mobile network subscriber is instructed that the service should now be informed of a connection number of a fixed network terminal device for the administration of the function;
- a connection number communicated thereupon is allocated to the mobile network subscriber;
 - the handling of a call initiated from the fixed network terminal device via the service, said call being allocated to the mobile network subscriber with the assistance of the connection number of the fixed network, is controlled dependent on the profile of the mobile network subscriber.
- 2. Method according to claim 1, characterized in that the mobile network subscriber is informed of a selection code that is to be additionally employed given use of the fixed network terminal device via the service.
 - 3. Method according to claim 1 or 2, characterized in that the fixed network terminal device that has been employed is de-registered automatically after expiration of a prescribable time and/or by an explicit de-registration procedure via the mobile telephone, as a result whereof it loses the property of being able to be used by the mobile network subscriber according to said subscriber's profile.
- 4. Service logic for the control of a service that
 accepts a request for administering a function of the service via a mobile network terminal device of a mobile network subscriber;
- subsequently identifies the subscriber;
- following a successful identification, instructs the mobile network
 subscriber that it should now be informed of a connection number of a
 fixed network terminal device for the administration of the function;
- allocates a connection number communicated thereupon to the mobile network subscriber;

then controls the handling of a call initiated from the fixed network terminal device via the service, said call being allocated to the mobile network subscriber with the assistance of the connection number of the fixed network, dependent on the profile of the mobile network subscriber.

5. Service logic according to claim 6 [sic], characterized in that it informs the mobile network subscriber of a selection code that is to be additionally employed given use of the fixed network terminal device via the service.

6. Service logic according to claim 4 or 5, characterized in that it deregisters the fixed network terminal device that has been employed automatically after expiration of a prescribable time and/or by an explicit de-registration procedure via the mobile telephone, as a result whereof it loses the property of being able to be used by the mobile network subscriber according to said subscriber's user profile.

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BACKGROUND OF THE INVENTION

Field of the Invention

1 The invention relates to a method and associated logic for administering a function of a service in a telecommunications network.

10 Description of the Related Art

- 2 For using an FMC (fixed-mobile converged) service, the subscriber must be unambiguously identified and authorized (for example, in order to be able to carry out a correct charging). For fixed-mobile converged services such as PCS (personal communication service) and CCS (corporate communication service), the service user sometimes employs a mobile terminal device and sometimes employs a fixed network terminal device.
- In the mobile radiotelephone network, the unambiguous identification of the subscriber ensues automatically via a SIM (subscriber identity module) card. The identification of the subscriber can also ensue automatically in the fixed network when the subscriber uses a terminal device that is administratively known to the FMC service and that is allocated to the subscriber, and when the fixed network supplies the calling line identity (connection number) of this fixed network terminal device to the FMC service logic.
- When using an arbitrary fixed network terminal (i.e., a fixed network terminal that was not administratively allocated to the subscriber by the FMC service), an automatic identification of the subscriber is not possible. However, a registration at one's own fixed network terminal device for employing this terminal device via a specific FMC service is also not possible, even though this would be meaningful in certain cases (for example, for teleworkers when specific calls from the connection are to be at the expense of the company (CCS service)).
- 5 Up to now, the fixed network has supported the use of outside terminals at

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one's own expense or of one's own terminal at the expense of a third party only via the possibility of identifying and authenticating the calling party via an in-band dialogue. To that end, the calling party (for example, an IN service subscriber) must input a personal identification number (PIN) that the service logic compares to data stored in the network (for example, for credit card services or for UPT). Such prior art is known, for example, from the European Patent document EP-A-0 602 779.

- Furthermore, the International Patent document WO 98 09425 A discloses a system for handling calls with whose assistance a fixed network terminal device that is to be employed for the continuation of the call can be indicated given an initiation of a call via a mobile network terminal device.
- Finally, the European Patent document EP-A-0844 799 discloses a communication system for handling calls with whose assistance a mobile network subscriber can indicate via said subscriber's mobile network terminal device whether calls directed to this subscriber should be routed to a prescribable fixed network terminal device.

SUMMARY OF THE INVENTION

The invention is based on the object of facilitating the employability of a fixed network terminal device via a specific service for a mobile network subscriber.

BRIEF DESCRIPTION OF THE DRAWINGS

9 An exemplary embodiment of the invention is explained in greater detail below with reference to the single Figure, which is a block schematic diagram showing the inventive arrangement.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

- The Figure represents an exemplary configuration in which the realization of the inventive service logic is based on an intelligent network IN. An inventive FMC service, however, need not necessarily be realized on a service control point SCP of an IN.
- 30 11 For an FMC service whose service logic is realized in a service control point SCP, the caller has a mobile telephone GSM available. For an access of the

subscriber to the FMC service via the mobile telephone, the FMC service logic receives the mobile radiotelephone number MSISDN of the FMC service subscriber that is administratively known to the FMC service logic and that was authenticated in the mobile radiotelephone network PLMN (given an IN-based FMC service, for example, the mobile radiotelephone number of the FMC service subscriber is transmitted in the CallingPartyNumber parameter of the standardized IN protocol, see ETSI Core INAP or ITU-T Recommendations Q.1218/Q.1228). The FMC service logic can automatically identify and authorize the FMC subscriber on the basis of the subscriber's mobile radiotelephone number.

This can be utilized by the subscriber of the FMC service for the use of an arbitrary fixed network terminal device in a fully digital fixed network PSTN that transmits the CallingLineIdentity in order to avoid the employment of a PIN. The procedure for this is as follows:

Phase 1:

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The subscriber selects an FMC service access code at the mobile telephone 13 GSM. The access request is potentially forwarded to the FMC service across network boundaries (here, from a mobile network PLMN via a digital fixed network PSTN). The FMC service automatically identifies the subscriber on the basis of the subscriber's mobile radiotelephone number MSISDN. The FMC service responds by initiating that the subscriber should now inform the service of a connection number of a fixed network terminal device. Via voice or DTMF input, the subscriber enters the CallingLineIdentity of the fixed network terminal device that he would like to use at his own expense for outgoing calls or other line-switched services (for example, data transmission) for a definable time duration or, respectively, until an explicit deregistration. The FMC service subsequently registers the terminal device and assigns it to the subscriber. Optionally, the FMC service can communicate a selection code to the subscriber that is to be additionally employed for utilization of this fixed network terminal device (the service can distinguish between a plurality of inventive outside users of the fixed network terminal device on the basis of the selection code).

Phase 2:

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- The subscriber selects a specific FMC service access code at the fixed 14 network terminal device and, optionally, an additional, temporary selection code before the destination telephone number. The FMC service access number is triggered in the fixed network and an inquiry is made at the FMC service logic (for example, with the existing IN procedures). This identifies the FMC service subscriber on the basis of the CallingLineIdentity of the fixed network terminal device registered in Phase 1 that is co-supplied in a fully digital fixed network and (optionally) also on the basis of the temporary selection code in the selected numbers (INAP parameter CalledPartyNumber), and decides about further handling of the call (for example, charge accrual) on the basis of the FMC service subscriber profile). The FMC service logic controls the further handling of the call (for example, according to the existing IN procedures). The freedom from cost for the owner of the fixed network terminal can be assured on the basis of the selected, specific FMC service access code in the fixed network subscriber switching center on the basis of administrative data or controlled by the FMC service logic (for example, with the assistance of existing IN procedures).
 - The FMC service subscriber can also use the registered fixed network terminal device for subsequent calls in the same way without requiring a separate PIN, namely until a de-registration takes place.

Phase 3:

Either automatically after the expiration of a prescribable time and/or by an explicit de-registration procedure via the mobile telephone, the fixed network terminal device that has been employed loses the property of being able to be used by the FMC service subscriber at the subscriber's own expense or of being able to be used by the FMC service subscriber at the expense of a third party.)For an explicit de-registration procedure, which is again to be implemented via the mobile network terminal device, analogous to the registration procedure, the FMC service

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checks whether there is already a registration for the CallingLineIdentity indicated by the subscriber. When this is the case, the de-registration is implemented.)

- 17 The administration of subscriber-individual PINs for the use of arbitrary fixed network terminals is thus superfluous for FMC services.
- arbitrary fixed network terminals can also be administered without the employment of a PIN by the subscriber when the subscriber implements the administration only via his mobile radiotelephone. The required subscriber identification is carried out by the mobile radiotelephone network in the same way as described for the method for using arbitrary fixed network terminals. Subscriber-individual PINs can thus be generally foregone in FMC services when all subscriber inputs for administration of services ensue only via the subscriber's mobile radiotelephone.
- The above-described method and associated logic are illustrative of the principles of the present invention. Numerous modifications and adaptations thereof will be readily apparent to those skilled in this art without departing from the spirit and scope of the present invention.

J005 Rec'd PCT/PTO 0.2 FEB 2001

This redlined draft, generated by CompareRite (TM) - The Instant Redliner, shows the differences between -

original document : Q:\DOCUMENTS\YEAR 2001\P010010-MAUS-ADMINISTERING SUBSCRIBER SERVICE\ORIGINAL SPECIFICATION.DOC and revised document: Q:\DOCUMENTS\YEAR 2001\P010010-MAUS-

ADMINISTERING SUBSCRIBER SERVICE\SUBSTITUTE SPECIFICATION.DOC

CompareRite found 53 change(s) in the text

Deletions appear as Overstrike text surrounded by []
Additions appear as Bold-Underline text

SPECIFICATION

TITLE

METHOD FOR ADMINISTERING A SERVICE FOR A SUBSCRIBER

BACKGROUND OF THE INVENTION

Field of the Invention

The invention relates to a method and associated logic for administering a function of a service in a telecommunications network.

Description of the Related Art

- For using an FMC [service (FMC:](fixed-mobile converged) service, the subscriber must be unambiguously identified and authorized (for example, in order to be able to carry out a correct charging). [Given] For fixed-mobile converged services such as[, for example,] PCS (personal communication service) and CCS (corporate communication service), the service user sometimes employs a mobile terminal device and sometimes employs a fixed network terminal device.
- In the mobile radiotelephone network, the unambiguous identification of the subscriber ensues automatically via [the] a SIM [card (SIM:](subscriber identity module) card. The identification of the subscriber can also ensue automatically in the fixed network when the subscriber uses a terminal device that is administratively known to the FMC service and that is allocated to the subscriber, and when the fixed network supplies the calling line identity (connection number) of this fixed network terminal device to the FMC service logic.
 - [Given employment of] 4 When using an arbitrary fixed network terminal (i.e., a fixed network terminal that was not administratively allocated to the subscriber by the

 -1- MARK UP FOR SUBSTITUTE SPECIFICATION

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FMC service), an automatic identification of the subscriber is not possible. However, a registration at one's own fixed network terminal device for employing this terminal device via a specific FMC service is also not possible, even though this would be meaningful in certain cases (for example, for teleworkers when specific calls from the connection are to be at the expense of the company (CCS service)).

- Up to now, the fixed network has supported the use of outside terminals at one's own expense or [, respectively,] of one's own terminal at the expense of a third party only via the possibility of identifying and authenticating the calling party [by means of] via an in-band dialogue. To that end, the calling party (for example, an IN service subscriber) must input a personal identification number (PIN) that the service logic compares to data stored in the network (for example, [given] for credit card services or [given] for UPT). Such [a Prior Art] prior art is known, for example, from the European Patent document EP-A-0 602 779.
- Furthermore, the International Patent document WO 98 09425 A[, further,] discloses a system for handling calls with whose assistance a fixed network terminal device that is to be employed for the continuation of the call can be indicated given an initiation of a call via a mobile network terminal device.
- The] 7 Finally, the European Patent document EP-A-0844 799[, finally,] discloses a communication system for handling calls with whose assistance a mobile network subscriber can indicate via said subscriber's mobile network terminal device whether calls directed to [said] this subscriber should be routed to a prescribable fixed network terminal device.

SUMMARY OF THE INVENTION

<u>8</u> The invention is based on the object of facilitating the employability of a fixed network terminal device via a specific service for a mobile network subscriber.

BRIEF DESCRIPTION OF THE DRAWINGS

- An exemplary embodiment of the invention is explained in greater detail below with reference to the [drawing, whereby the drawing comprises one Figure.
- 30 <u>Isingle Figure, which is a block schematic diagram showing the inventive arrangement.</u>

DESCRIPTION OF THE PREFERRED EMBODIMENTS

-2-

- 10 The Figure represents an exemplary configuration [wherein] in which the realization of the inventive service logic is based on an intelligent network IN. An inventive FMC service, however, need not necessarily be realized on a service control point SCP of an IN.
- [Given] 11 For an FMC service whose service logic is realized in a service control point SCP, the caller has a mobile telephone GSM available. [Given] For an access of the subscriber to the FMC service via the mobile telephone, the FMC service logic receives the mobile radiotelephone number MSISDN of the FMC service subscriber that is administratively known to the FMC service logic and that was authenticated in the mobile radiotelephone network PLMN (given an IN-based FMC service, for example, the mobile radiotelephone number of the FMC service subscriber is transmitted in the CallingPartyNumber parameter of the standardized IN protocol, see ETSI Core INAP or ITU-T Recommendations Q.1218/Q.1228). The FMC service logic can automatically identify and authorize the FMC subscriber on the basis of the [subscriber=s] subscriber's mobile radiotelephone number.
- 12 This can be utilized by the subscriber of the FMC service for the use of an arbitrary fixed network terminal device in a fully digital fixed network PSTN that transmits the CallingLineIdentity in order to avoid the employment of a PIN. The procedure for this is as follows:

Phase 1:

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The subscriber selects an FMC service access code at the mobile telephone GSM. The access request is potentially forwarded to the FMC service across network boundaries (here, from a mobile network PLMN via a digital fixed network PSTN). The FMC service automatically identifies the subscriber on the basis of the [subscriber=s] subscriber's mobile radiotelephone number MSISDN. [In response thereto, the] The FMC service [initiates] responds by initiating that the subscriber should now inform the service of a connection number of a fixed network terminal device. Via voice or DTMF input, the subscriber enters the CallingLineIdentity of the fixed network terminal device that he would like to use at his own expense for outgoing calls or other line-switched services (for example, data transmission) for a definable time duration or, respectively, until an explicit de-registration. The FMC service subsequently registers the terminal device and assigns it to the subscriber.

Optionally, the FMC service can communicate a selection code to the subscriber that is to be additionally employed [given] for utilization of this fixed network terminal device (the service can distinguish between a plurality of inventive outside users of the fixed network terminal device on the basis of the selection code).

Phase 2:

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- The subscriber selects a specific FMC service access code at the fixed 14 network terminal device and, optionally, an additional, temporary selection code before the destination telephone number. The FMC service access number is triggered in the fixed network and an inquiry is made at the FMC service logic (for example, with the existing IN procedures). This identifies the FMC service subscriber on the basis of the CallingLineIdentity of the fixed network terminal device registered in [phase] Phase 1 that is co-supplied in a fully digital fixed network and [B-optionally B](optionally) also on the basis of the temporary selection code in the selected numbers (INAP parameter CalledPartyNumber), and decides about further handling of the call (for example, charge accrual) on the basis of the FMC service subscriber profile). The FMC service logic controls the further handling of the call (for example, according to the existing IN procedures). The freedom from cost for the owner of the fixed network terminal can be assured on the basis of the selected, specific FMC service access code in the fixed network subscriber switching center on the basis of administrative data or controlled by the FMC service logic (for example, with the assistance of existing IN procedures).
- The FMC service subscriber can also use the registered fixed network terminal device for subsequent calls in the same way without requiring a separate [PIn therefor] PIN, namely until a de-registration [ensues] takes place.

Phase 3:

Either automatically after the expiration of a prescribable time and/or by an explicit de-registration procedure via the mobile telephone, the fixed network terminal device that has been employed loses the property of being able to be used by the FMC service subscriber at the [subscriber=s] subscriber's own expense or [, respectively,] of being able to be used by the FMC service subscriber at the expense of a third party. [(Given])For an explicit de-registration procedure, which is again to

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be implemented via the mobile network terminal device, analogous to the registration procedure, the FMC service checks whether there is already a registration for the CallingLineIdentity indicated by the subscriber. When this is the case, the deregistration is implemented.)

- <u>17</u> The administration of subscriber-individual PINs for the use of arbitrary fixed network terminals is thus superfluous for FMC services.
- FMC service sub-functions other than the described method for using arbitrary fixed network terminals can also be administered without the employment of a PIN by the subscriber when the subscriber implements the administration only via his mobile radiotelephone. The required subscriber identification is carried out by the mobile radiotelephone network in the same way as described for the method for using arbitrary fixed network terminals. Subscriber-individual PINs can thus be generally foregone in FMC services when all subscriber inputs for administration of services ensue only via the [subscriber=s] subscriber's mobile radiotelephone.
- 15 [Abbreviations Employed:] 19 The above-described method and associated logic are illustrative of the principles of the present invention. Numerous modifications and adaptations thereof will be readily apparent to those skilled in this art without departing from the spirit and scope of the present invention.

[BTS: base transceiver system] ABSTRACT

[BSC : base station controller

HLR/AC: home location register / authentication center

IN: intelligent network

5 INAP: In application protocol

ISUP: ISDN user part

LEX-SSP: Local exchange with SSP functionality

MSC-SSP: Mobile switching center with SSP functionality

MAP: mobile application part

10 PSTN:: Public switched telephone network

PLMN: public land mobile network

subscriber to input a PIN to book a service with the purpose of managing this service from the subscriber side. This is achieved by using a mobile network terminal for the management. The mobile subscriber reports a subscriber number of a fixed network terminal to the service, in which the subscriber number thus reported is allocated to the mobile network subscriber so that the mobile network subscriber can thereafter use the fixed network terminal for the special service, namely by debiting an account opened by the service.

ABSTRACT

The invention prevents the need for a subscriber to input a PIN to book a service with the purpose of managing this service from the subscriber side. This is achieved by using a mobile network terminal for the management. The mobile subscriber reports a subscriber number of a fixed network terminal to the service, in which the subscriber number thus reported is allocated to the mobile network subscriber so that the mobile network subscriber can thereafter use the fixed network terminal for the special service, namely by debiting an account opened by the service.

(Reg. No. 45,877)

JC05 Rec'd PCT/PTO 0 2 FEB 2001

BOX PCT

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE UNDER THE PATENT COOPERATION TREATY--CHAPTER II

APPLICANT(S):

RENATE ZYGAN-MAUS

ATTORNEY DOCKET NO .:

P01,0010

INTERNATIONAL APPLICATION NO: PCT/EP99/05651

INTERNATIONAL FILING DATE:

04 AUGUST 1999

INVENTION:

METHOD FOR ADMINISTERING A SERVICE FOR A

SUBCRIBER

Assistant Commissioner for Patents, Washington, D.C. 20231

REQUEST FOR APPROVAL OF DRAWING ADDITIONS

Sir:

Enclosed is 1 sheet of drawings, Single Figure, showing in red, the addition of labels to the elements depicted therein. Approval of the additions is respectfully requested.

Submitted by,

Mark Bergner

SCHIFF HARDIN & WAITE

PATENT DEPARTMENT 6600 Sears Tower

Chicago, Illinois 60606-6473

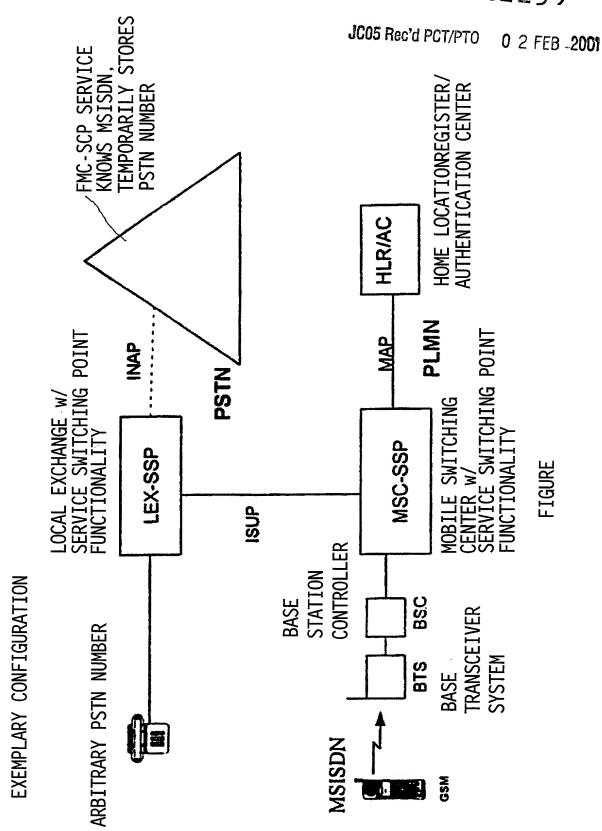
(312) 258-5779

Attorney for Applicant(s)

CUSTOMER NUMBER 26574

HLR/AC <u>₹</u> **PSTN** MSC-SSP LEX-SSP FIGURE ISUP BSC ARBITRARY PSTN NUMBER BTS **MSISDN** GSK

EXEMPLARY CONFIGURATION



Declaration and Power of Attorney For Patent Application Erklärung Für Patentanmeldungen Mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:	As a below named inventor, I hereby declare that.		
dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,	My residence, post office address and citizenship are as stated below next to my name,		
dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:	I believe I am the original, first and sole inventor (i only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a paten is sought on the invention entitled		
<u>Verfahren zum Administrieren eines</u>			
Dienstes für einen Teilnehmer			
deren Beschreibung	the specification of which		
(zutreffendes ankreuzen)	(check one)		
kier beigefugt ist.	☐ is attached hereto.		
am als	was filed onas		
PCT internationale Anmeldung PCT Anmeldungsnummer	PCT international application		
eingereicht wurde und am	PCT Application Noand was amended on(if applicable)		
abgeändert wurde (falls tatsächlich abgeändert).	(if applicable)		
Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeän- dert wurde.	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.		
Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.	I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).		
Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, für die Priorität beansprucht wird.	I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:		
Page 1	l of 3		

		German Langu	age Declaration		
Prior foreign app Priorität beanspro				Priorit	y Claimed
98114751.5 (Number) (Nummer)	Germany (Country) (Land)	05. August (Day Month Y (Tag Monat Ja		X Yes Ja	No Nein
(Number) (Nummer)	(Country) (Land)	(Day Month Y (Tag Monat Ja	ear Filed) ahr eingereicht)	Yes Ja	∏ No Nein
(Number) (Nummer)	(Country) (Land)	(Day Month Y (Tag Monat Ja	ear Filed) ahr eingereicht)	☐ Yes Ja	□ No Nein
prozessordnung 120, den Vorzu dungen und fa Anspruch dieser amerikanischen Paragraphen des der Vereinigten S erkenne ich gen Paragraph 1.56(Informationen an der früheren An	der Vereinigter g aller unten alls der Gege Anmeldung ni Patentanmeldus Absatzes 35 d Staaten, Paragr näss Absatz 37 a) meine Pflicht n, die zwischen meldung und alen Anmelded	s Absatz 35 der Zivil- n Staaten, Paragraph aufgeführten Anmel- enstand aus jedem icht in einer früheren ing laut dem ersten ler Zivilprozeßordnung raph 122 offenbart ist, 7, Bundesgesetzbuch, t zur Offenbarung von n dem Anmeldedatum dem nationalen oder latum dieser Anmel-	I hereby claim the b States Code. §120 of a listed below and, insofa of the claims of this ap prior United States app by the first paragraph of §122, I acknowledge information as defined Regulations, §1.56(a) filing date of the prior PCT international filing	any United Star as the sub- plication is not plication in the of Title 35, United the duty to in Title 37 which occuranced application a	tates application(s ject matter of each not disclosed in the e manner provider Inited States Code disclose materia , Code of Federa ured between the and the national of
(Application Serial No (Anmeldeseriennumm		(Filing Date) (Anmeldedatum)	(Status) (patentiert, anhängig, aufgegeben)	((Status) (patented, pending, abandoned)
(Application Serial No (Anmeldeseriennumm		(Filing Date) (Anmeldedatum)	(Status) (patentiert, anhängig, aufgeben)	1	(Status) (patented, pending, abandoned)
den Erklärung besten Wissen entsprechen, und rung in Kenntnis vorsätzlich falsch Absatz 18 der Staaten von Am Gefängnis bestra wissentlich und	gemachten An- und Gewissen d dass ich diese dessen abgebe he Angaben ger Zivilprozessord erika mit Gelds aft werden koen vorsätzlich false genden Patenta	n mir in der vorliegen- gaben nach meinem der vollen Wahrheit e eidesstattliche Erklä- e, dass wissentlich und mäss Paragraph 1001, nung der Vereinigten strafe belegt und/oder nen, und dass derartig che Angaben die Gül- anmeldung oder eines den können.	I hereby declare that my own knowledge as made on information true, and further that with the knowledge th the like so made imprisonment, or both, of the United States C statements may jeo application or any pate	re true and the and belief at these state at willful falsare punish under Sectioned and the pardize the	that all statement are believed to be ments were mad se statements an able by fine con 1001 of Title 1st such willful fals avalidity of the
]		Page	e 2 of 3		

The Unall Unit, 4,th Unit, 5,th U

German Language Declaration

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Patent-Agenten mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem Patent- und Warenzeichenamt: (Name und Registrationsnummer anführen)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

And I hereby appoint
Messrs. John D. Simpson (Registration No. 19,842) Lewis T. Steadman (17,074), William C. Stueber (16,453), P. Phillips Connor (19,259), Dennis A. Gross (24,410), Marvin Moody (16,549), Steven H. Noll (28,982), Breit A. Valiquet (27,841), Thomas I. Ross (29,275), Kevin W. Guynn (29,927), Edward A. Lehmann (22,312), James D. Hobart (24,149), Robert M. Barrett (30,142), James Van Santen (16,584), J. Arthur Gross (13,615), Richard J. Schwarz (13,472) and Melvin A. Robinson (31,870), David R. Metzger (32,919), John R. Garrett (27,888) all members of the firm of Hill, Steadman & Simpson, A Professional

Telefongespräche bitte richten an: (Name und Telefonnummer)	Direct Telephone Calls to: (name and telephon number) 312/876-0200 Ext.
Postanschrift:	Send Correspondence to:
A Profession	DMAN & SIMPSON onal Corporation ver, Chicago, Illinois 60606
Voller Name des einergen oder ursprünglichen Erfinders:	Full name of sole or first inventor:
ZYGAN-MAUS, Renate Unterschrift des Erfinders Datum	
Denate Lygan Mans 16.8.9	Inventor's signature Date
Wohnsitz Figgur 11 (Cuts 10.0.5)	Residence
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Bundesrepublik Deutschland	
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D-81477 München	
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Voller Name des zweiten Miterfinders (falls zutreffend):	Full name of second joint inventor, if any:
Unterschrift des Erfinders Datum	Second Inventor's signature Date
Wohnsitz	Residence
Staatsangehörigkeit	Citizenship
Postanschrift	Post Office Address
Bitte entsprechende Informationen und Unterschriften im alle von dritten und weiteren Miterfindern angeben).	(Supply similar information and signature for third and subsequent joint inventors).
Pos	re 3 of 3

BOX PCT

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE UNDER THE PATENT COOPERATION TREATY--CHAPTER II

APPLICANT(S):

RENATE ZYGAN-MAUS

ATTORNEY DOCKET NO.:

P01,0010

INTERNATIONAL APPLICATION NO:

PCT/EP99/05651

INTERNATIONAL FILING DATE:

04 AUGUST 1999

(Reg. No. 31,870)

INVENTION:

METHOD FOR ADMINISTERING A SERVICE FOR A

SUBSCRIBER

Assistant Commissioner for Patents, Washington D.C. 20231

APPOINTMENT OF ASSOCIATE POWER OF ATTORNEY

Dear Sir:

I am an attorney designated on the Power of Attorney for the above-referenced application. I hereby appoint Mark Bergner (Reg. No. 45,877) as an associate attorney, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Submitted by,

Melvin A. Robinson

SCHIFF HARDIN & WAITE

PATENT DEPARTMENT

6600 Sears Tower

Chicago, Illinois 60606-6473

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Attorney for Applicant(s)

CUSTOMER NUMBER 26574

BOX PCT JC05 Rec'd PCT/PTO 0 2 FEB 2001

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE UNDER THE PATENT COOPERATION TREATY-CHAPTER II

CHANGE OF ADDRESS OF APPLICANTS' REPRESENTATIVE

APPLICANT(S):

RENATE ZYGAN-MAUS

(Reg. No. 45,877)

ATTORNEY DOCKET NO.:

P01,0010

INTERNATIONAL APPLICATION NO:

PCT/EP99/05651

INTERNATIONAL FILING DATE:

04 AUGUST 1999

INVENTION:

METHOD FOR ADMINISTERING A SERVICE FOR A SUBSCRIBER

Assistant Commissioner for Patents, Washington D.C. 20231

SIR:

Members of the firm of Hill & Simpson designated on the original Power of Attorney have merged into the firm of Schiff Hardin & Waite. All future correspondence for the above-referenced application therefore should be sent to the following address:

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Submitted by,

Mark Bergner

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